

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-66

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MACK TRUCKS, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following 1995 model-year Mack Trucks, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
SMK728EJDARA (45)	11.9 (728)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour, except that compliance with the carbon monoxide exhaust emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.091-23(c)(2)(i):

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
SMK728EJDARA	0.0 (0.03)	4.5	0.09

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 17th day of January, 1995.

A handwritten signature in cursive script, appearing to read "R. B. Summerfield", is written over the typed name and title.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-27-66

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HEAVY-DUTY DIESEL-STANDARD ENGINESPage 1 of 2

Manufacturer MACK TRUCKS, INC. Engine Family 45 (SMK728EJDARA)
Displacement: 11.9 / _____ Liters 728 / _____ Cubic Inches
Maximum Rated Power: 454 HP @ 1800 RPM Engine Configuration: I-6
Ignition: Compression X Compression with Glow Plug _____ Spark _____
Fuel Type(s): Dedicated _____ Flex-Fuel _____ Dual-Fuel _____ Diesel X M100 _____ M85 _____
CNG _____ LNG _____ LPG _____ Other (specify) _____
Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X
Primary Intended Service Class: LHD _____ MHD _____ HHD _____ Urban Bus _____
Exhaust ECS (incl. MFI, TC, CAC): TC, CAC, ECM, DI
(use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector Part No. 313GC/114GC	ECM/PCM Part No. 1MS	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
E7-454	454 @ 1800	249.3 (156.1)	5205-P3/324A P4 5217-P2/324A P6	536-P9 543-P9	N/A	N/A
E7-427	427 @ 1800	230.2 (144.1)	5205-P3/324A P4 5217-P2	536-P8, P23 543-P8	N/A	N/A
E7-400	400 @ 1800	214.3 (134.2)	5205-P1/324A P4 5217-P1	536-P7, P22 541-P7 543-P7	N/A	N/A
E7-375	375 @ 1800	198.5 (124.3)	5205-P1/324A P4 5217-P1	536-P10, P21 543-P10	N/A	N/A
E7-350	350 @ 1800	184.2 (115.3)	5205-P1/324A P3 5217-P1	536-P6, P17, P20 541-P6 543-P6	N/A	N/A
E7-325	325 @ 1800	169.9 (106.4)	5205-P1/324A P3 5217-P1	536-P5, P15 543-P5	N/A	N/A
E7-300	300 @ 1800	156.4 (97.9)	5205-P1/324A P5 5217-P1	536-P4, P16 P19 543-P4	N/A	N/A

Date Issued:

Revisions: _____

